



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

48222-11

Date of Issuance:

7/13/17

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Agro-K Copper Lite Plus

Name and Address of Registrant (include ZIP Code):

Agro-K Corporation  
James Yowell, Agent  
c/o Spring Trading Company  
203 Dogwood Trail  
Magnolia, TX 77354

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Tony Kish, Product Manager 22  
Fungicide Branch, Registration Division (7505P)

Date:

7/13/17

2. You are required to comply with the data requirements described in the DCI identified below:

a. Copper Sulfate Pentahydrate GDCI-024401-1268

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, “EPA Reg. No. 48222-11.”

4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 3/28/2017

If you have any questions, please contact Lindsay Roe by phone at 703-347-0506, or via email at [roe.lindsay@epa.gov](mailto:roe.lindsay@epa.gov).

Enclosure



**Agro-K Copper Lite Plus**  
Fungicide

ACTIVE INGREDIENTS: (BY WT.)  
 Copper Sulfate Pentahydrate CAS No. 7758-99-8 ..... 19.87%  
 Yeast extract hydrolysate from *Saccharomyces cerevisiae* CAS No.68876-77-7 .....0.105%  
 OTHER INGREDIENTS: .....80.025%  
 TOTAL ..... 100.00%  
 Copper (Cu) as metallic 5%  
**One gallon (9.44 Lb/Gallon Agro-K Copper Lite Plus) contains 0.5 lbs. of elemental copper**

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

(If you do not understand the label, find someone to explain it to you in detail.) Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eyelid open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor immediately for treatment advice.</li> </ul>
<b>IF ON SKIN:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor immediately for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p><b>HOT LINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of emergency, call ChemTrec at 1-800-424-9300.</p>	
<p><b>Note to Physician:</b> Probable mucosal damage may contraindicate the use of gastric lavage</p>	

**Net Contents:** \_\_\_ Gallons

EPA Reg. No. 48222-  
 Manufactured by:  
 Agro-K Inc.  
 8030 Main Street N.E.  
 Minneapolis, MN 55432

Lot No. \_\_\_\_\_ EPA Est. No.: \_\_\_\_\_

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid contact with eyes or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear (goggles, face shield, or shielded safety glasses)

**USER SAFETY REQUIREMENTS**

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements maybe reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**PHYSICAL and CHEMICAL HAZARDS**

Do not mix or allow to come in contact with reducing agents. Hazardous chemical reaction may occur. Do not use, pour, spill or store near heat or open flame. Non-flammable, do not freeze. Always store Agro-K Copper Lite Plus above 32° F. Freezing may cause product separation. Seller makes no warranty for the performance of a product which has been frozen.

## **CHEMIGATION PROHIBITION**

Do not apply this product through any type of irrigation system.

## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, Chemical-resistant gloves made of any waterproof material, Shoes plus socks, Protective eyewear: goggles, face shield, or shielded safety glasses.

### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter until sprays have dried.

## **APPLICATION AND HANDLING EQUIPMENT**

Application, handling or storage equipment MUST consist of either fiberglass, PVCs, polypropylenes, and plastic, or stainless steel. Never use mild steel, nylon, brass, aluminum or copper around, or to store or handle Agro-K Copper Lite Plus. Always rinse equipment free and clean of Agro-K Copper Lite Plus each night with plenty of fresh clean water.

## **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**PESTICIDE STORAGE:** Store in a cool, dry place in the original container. Do not store in a manner where cross contamination with other pesticides, fertilizers, food or feed could occur.

### **CONTAINER HANDLING:**

**Non-refillable plastic container.** Do not reuse or refill this container. Clean container promptly after emptying.

Triple rinse as follows: Empty the remaining contents from this container into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this rinsing procedure two more times.

Then offer for recycling if available, or puncture and dispose in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## **SPRAY DRIFT MANAGEMENT**

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, and relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

### **Droplet Size**

Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

### **Wind Speed**

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition (approximately 3 to 10 mph), and there are no sensitive areas within 250 feet downwind.

### **Temperature Inversions**

If applying at wind speeds less than 3 mph, the applicator must determine if:

- a) conditions of temperature inversion exist, or
- b) stable atmospheric conditions exist at or below nozzle height.

Do not make applications into areas of temperature inversions or stable atmospheric conditions.

### **Other State and Local Requirements**

Applicators must follow all state and local pesticide drift requirements regarding application of copper compounds. Where states have more stringent regulations, they must be observed.

## **Equipment**

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

### **Additional requirements for ground boom applications:**

Do not apply with a nozzle height greater than 4 feet above the crop canopy.

### **Additional requirements for aerial applications:**

- The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

- Release spray at the lowest height consistent with efficacy and flight safety.

Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

- When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

## **FOR FUNGICIDE USE**

Use as directed below. Depending on the equipment used and the specific crop, the volume applied per acre will differ. For high volume sprays use from 25 to 100 gallons per acre (GPA). For concentrate ground sprays, apply from 20 to 50 GPA. For aerial spraying, 3 to 15 GPA are commonly used. This product alone may not completely control disease and growers are advised to use other fungicide chemistries in rotation with Agro-K Copper Lite Plus.

## **SPECIFIC INSTRUCTIONS**

**BEANS** (except for California): Bacterial Blight (Halo & Common). Use 16 to 32 fl. oz. per acre. Make first application when plants are 3 to 5 inches high, starting with the 16oz per acre rate, before disease symptoms appear. Continue application on a 7-10 day schedule, depending on local conditions.

Do not apply more than 32fl. oz./A per application and do not apply more than 2 gallons/acre per year.

**CANTALOUPE:** HONEYDEWS, MUSKMELON, WATERMELON, Downy Mildew, Powdery Mildew, Alternaria & Angular Leaf Spot, Scar. Apply at 16 to 48 fl. oz. per acre when plants begin to vine starting with the lowest rate and increasing as plants grow. Continue applications on a 7-day interval. In areas where Angular Leaf Spot is a problem, applications should be made on a 5-7 day schedule.

Do not apply more than 48 fl. oz./A per application and do not apply more than 3 gallons/acre per year.

**CELERY:** Early, Late & Bacterial Blight. Apply 16 to 32 fl. oz. per acre. Begin applications when plants are first established using the 16oz rate, then every 7 days or more, depending on disease conditions. Increase rate as plants grow

Do not apply more than 32fl. oz./A per application and do not apply more than 3 gallons/acre per year.

**CUCUMBERS:** Alternaria & Angular Leaf Spot, Powdery Mildew. Apply at 16 to 32 fl. oz. per acre per year when plants begin to vine starting with the lowest rate and increasing as plants grow. Continue applications on a 7-day interval basis. In areas where Angular Leaf Spot is a problem, applications should be made on a 5-7 day schedule.

Do not apply more than 32fl. oz./A per application and do not apply more than 3 gallons/acre per year.

PEANUTS (except for California): Cercospora Leaf Spot. Begin spraying at 16 to 48 fl. oz. per acre at first sign of disease and every 10-14 days thereafter.

Do not apply more than 48fl. oz/A per application and do not apply more than 3 gallons/acre per year.

POTATOES (except for California): Early and Late Blight. Apply at 16 to 48 fl. oz. per acre. Begin applications when plants are 3-4 inches high starting with the lowest rate and increasing as plants grow and continue at 7-10 day intervals.

Do not apply more than 48fl. oz./A per application and do not apply more than 5 gallons/acre per year.

SOYBEANS (except for California): Bacterial Blight (Halo & Common). Use 16 to 32 fl. oz. per acre. Make first application when plants are 3-5 inches high before disease symptoms appear starting with the lowest rate and increasing as plants grow. Continue applications on a 7-10 day schedule, depending on local conditions.

Do not apply more than 32 fl. oz/A per application and do not apply more than 2 gallons/acre per year.

SQUASH: (summer& winter), Alternaria & Angular Leaf Spot, Powdery Mildew. Use 16 to 32 fl. oz. per acre when plants begin to vine starting with the lowest rate and increasing as plants grow. Continue applications on a 7-day interval basis. In areas where Angular Leaf Spot is a problem, applications should be made on a 5-7 day schedule.

Do not apply more than 32 fl. oz./A per application and do not apply more than 3 gallons/acre per year.

SUGAR BEETS (except for California): Cercospora Leaf Spot. Use 16 to 48 fl. oz. per acre. Begin when plants are 3-4 inches high starting with the lowest rate and increasing as plants grow and continue on a 10-14 day interval.

Do not apply more than 48 fl. oz/A per application and do not apply more than 4 gallons/acre per year.

TOMATO: Bacterial Spot, Early Blight. Use 16 to 48 fl. oz. per acre. In seedbeds, begin application when seedlings emerge starting with the lowest rate and increasing as plants grow and repeat at 4-5 day intervals. In field, begin applications 10-14 days after transplanting starting with the lowest rate and increasing as plants grow and continue on 4-7 day intervals or more frequently if disease conditions are severe. Applications must be at least 3 days apart.

Do not apply more than 48 fl. oz./A per application and do not apply more than 5 gallons/acre per year.

PEPPERS: Bacterial Spot, Cercospora Leaf Spot. Apply at 16 to 48 fl. oz. per acre. Begin application before disease appears and continue at 7-10 day intervals.

Do not apply more than 48 fl. oz./A per application and do not apply more than 5 gallons/acre per year.

**CONDITIONS OF SALE—LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES**  
**Read the Conditions of Sale—Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.**

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Agro-K, Inc. or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Agro-K, Inc. and Seller harmless for any claims relating to such factors.

Agro-K, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Agro-K, Inc. and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, AGRO-K, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, neither Agro-K, Inc. nor Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF AGRO-K, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF AGRO-K, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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